



COPY OF PAPERS
ORIGINALLY FILED

PATENT

Rec'd 2876

RS

4

PATENT

11-8-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application
No. 10/005,104

BJERKE et al.

Filed: 12/03/2001

For: ITERATIVE DETECTION AND
DECODING FOR A MIMO-OFDM
SYSTEM

) Group No. 2876

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)**

Assistant Commissioner of Patents
Washington, D.C. 20231

RECEIVED
MAR 15 2002
TECHNOLOGY CENTER 2800

Dear Assistant Commissioner:

Applicants, through their attorney, submit herewith references of which they are aware, which they believe may be material to the examination of this application and with respect to which there may be a duty to disclose in accordance with 37 CFR § 1.56.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231, on:

03/06/2002

(Date of Deposit)

Carola Emelius-Swartz
(Name of the Person Making Deposit)


(Signature)

03/06/2002

(Date of Signature)

While the references identified herein may be material to the examination of this application pursuant to 37 CFR § 1.56, the citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application unless specifically designated as such.

The filing of this document shall not be construed to mean that any search has been made or, that if made such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

A list of the references cited herein is set forth on Form PTO-1449 which is enclosed herewith in duplicate along with a copy of each cited reference. Applicants respectfully request that the Examiner return to Applicants the enclosed copy of the Form PTO-1449 indicating consideration of the references.

The subject application is believed patentable over any of the above-references.

Respectfully submitted,

Dated: 03/06/2002

By: Sandie L. Godsey <sup>Reg. No.
42,589</sup>
Kent D. Baker, Reg. No. 38,822
(858) 658-1930

QUALCOMM Incorporated
Attn: Patent Department
5775 Morehouse Drive
San Diego, California 92121-1714
Telephone: (858) 651-1179
Facsimile: (858) 658-2502

RECEIVED
MAR 15 2002
TECHNOLOGY CENTER 2800

COPY OF PAPERS
ORIGINALLY FILED

Sheet _1_ of _1_

| | | | |
|--|--|------------------|-----------------|
| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. | APPLICATION NO. |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i> | | 010548 | 10/005,104 |
| | | APPLICANT | |
| | | BJERKE et al. | |
| DATE MAILED: 03/06/2002 | | FILING DATE | GROUP |
| | | 12/03/2001 | 2876 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|------------------|--------|-----------------|------|------|-------|-----------|----------------------------|
| | A1 | | | | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |
| | A6 | | | | | | |
| | A7 | | | | | | |
| | A8 | | | | | | |
| | A9 | | | | | | |
| | A10 | | | | | | |

RECEIVED
MAR 15 2002
TECHNOLOGY CENTER 2800

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUB CLASS |
|------------------|--------|-----------------|------|---------|------|-------|-----------|
| | B1 | | | | | | |
| | B2 | | | | | | |
| | B3 | | | | | | |
| | B4 | | | | | | |

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Page, Etc.*)

| | | |
|----|--|--|
| C1 | | Patrick Robertson et al., "A Comparison of Optimal and Sub-Optimal MAP Decoding Algorithms Operating in the Log Domain," IEEE 1995 (pgs. 1009-1013). |
| C2 | | Andrew J. Viterbi "An Intuitive Justification and a Simplified Implementation of the MAP Decoder for Convolutional Codes," IEEE Journal on Selected Areas in Communications, VOL. 16, No. 2, February 1998 (pgs. 260 – 264). |
| C3 | | John A. C. Bingham "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," IEEE Communications Magazine, May 1990 (pgs. 5-14). |

| | |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

CUSTOMER NO. 23696

COPY OF PAPERS
ORIGINALLY FILED

Sheet 1 of 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(REV. 7-80) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

DATE MAILED: 03/06/2002



| | |
|------------------|-----------------|
| ATTY. DOCKET NO. | APPLICATION NO. |
| 010548 | 10/005,104 |
| APPLICANT | |
| BJERKE et al. | |
| FILING DATE | GROUP |
| 12/03/2001 | 2876 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|------------------|--------|-----------------|------|------|-------|-----------|----------------------------|
| | A1 | | | | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |
| | A6 | | | | | | |
| | A7 | | | | | | |
| | A8 | | | | | | |
| | A9 | | | | | | |
| | A10 | | | | | | |

RECEIVED
MAR 15 2002
TECHNOLOGY CENTER 2800

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUB CLASS |
|------------------|--------|-----------------|------|---------|------|-------|-----------|
| | B1 | | | | | | |
| | B2 | | | | | | |
| | B3 | | | | | | |
| | B4 | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

| | | |
|----|--|--|
| C1 | | Patrick Robertson et al., "A Comparison of Optimal and Sub-Optimal MAP Decoding Algorithms Operating in the Log Domain," IEEE 1995 (pgs. 1009-1013). |
| C2 | | Andrew J. Viterbi "An Intuitive Justification and a Simplified Implementation of the MAP Decoder for Convolutional Codes," IEEE Journal on Selected Areas in Communications, VOL. 16, No. 2, February 1998 (pgs. 260 – 264). |
| C3 | | John A. C. Bingham "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," IEEE Communications Magazine, May 1990 (pgs. 5-14). |

EXAMINER _____ DATE CONSIDERED _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

CUSTOMER NO. 23696